<u>_</u>	ISBN - <b>0073211869</b>		Publisher - Glencoe/McGraw-Hill		Hill			
plishe	Biology (Raven, Johnson)							
Type - P1 Author - Raven, et al								
Provided by the Publisher	Copyright - 2005 Edition - 7th		Readabilit Titles			oility - Not Available for Higher Ed		
rovid	Cours	e - Biology			Grad	e(s) -	9,10,11,12	
			0073256765					
Overall Recommendation:    Recommended as Basal								
	Basa	al is strongly	aligned to A	P Biology cu	rriculum.			
-								
CRITERIA This basal resource								
A. Encompasses KY Content Standards & Grade Level  Expectations  Strong Evidence  Moderate Evidence  Little or No Evidence								
			esigned to be	used in an el	ective cour	se outside	the Program of Studies	
	1) Inc	ludes the 7 Bi	g Ideas of sc	ience to the	following e	xtent:		
	a)	Structure and	Transformation	on of Matter		Stror	ng Moderate Little N/A	١
	b)	Motion and Fo	orces			☐ Stror	ng 🗌 Moderate 🔲 Little 🔀 N/A	١
	c)	The Earth and	I the Universe			☐ Stror	ng 🗌 Moderate 🔲 Little 🔀 N/A	١
	d)	Unity and Dive	ersity			Stror	ng 🔲 Moderate 🔲 Little 🔲 N/A	١
	e)	Biological Cha	ange			Stror	ng 🔲 Moderate 🔲 Little 🔲 N/A	١
	f)	Energy Transf	ormation			Stror	ng 🔲 Moderate 🔲 Little 🔲 N/A	١
	g)	Interdepender	nce			Stror	ng 🔲 Moderate 🔲 Little 🔲 N/A	١
	un	dresses conte derstandings t indards.	•	_	of Studies	⊠ Stror	ng 🔲 Moderate 🔲 Little 🔲 N/A	١.
		dresses conte			cepts from	Stror	ng Moderate Little N/A	١

Content addressed is current, relevant and non- trivial	Strong ☐ Moderate ☐ Little ☐ N/A				
5) Provides opportunities for critical thinking/reasoning	Strong ☐ Moderate ☐ Little ☐ N/A				
<ul> <li>6) Strengths, Weaknesses, Comments:</li> <li>Specific strengths-which areas/concepts are covered exceptionally well?</li> <li>Specific weaknesses-which areas/concepts would likely require supplementing?</li> </ul>					
a) Evidence is strong as it applies to Organic Chemistry and Biochemistry. f) Evidence is strong, but nothing on nuclear reactions or wave behaviort There are application and understanding questions at the end of the chapter. essay questions at the end of the chapters in the teacher's edition. The instructor's manual has a section on student misconceptions and common pitfalls.					
B. Functionality & Suitability	Strong Evidence Moderate Evidence Little or No Evidence				
1) Suitability	Strong ☐ Moderate ☐ Little ☐ N/A				
<ul> <li>Should be suitable for use with a diverse population and ethnicity, gender, religion, social and/or geographic env any kind.</li> </ul>					
2) Content quality	Strong ☐ Moderate ☐ Little ☐ N/A				
<ul> <li>Free from factual errors</li> <li>Content is presented conceptually when possible—mor</li> <li>Content included accurately represents the knowledge</li> <li>Theories/scientific models contained represent a broad</li> </ul>	base of the discipline				
3) Connections to Literacy Note: may apply to either student or teacher editions	Strong Moderate Little				
<ul> <li>Employs a variety of reading levels and is grade/level a</li> <li>Contains pre, during, post reading activities</li> <li>Provides opportunities for summarizing, reviewing, and at multiple levels of difficulty for a variety of learning sty</li> <li>Student text provides opportunity to integrate reading a</li> <li>Uses vocabulary that is age and content appropriate</li> <li>Focuses on critical vocabulary vs. extensive lists</li> <li>Identifies key vocabulary through definitions in both text</li> <li>Engaging text- does the text facilitate learning?</li> <li>Does understanding the text require having performed to</li> </ul>	reinforcing vocabulary skills and concepts les. nd writing t and glossary				
4) Connections to Technology	☐ Strong ☑ Moderate ☐ Little				

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data

### 5) Support for Diverse Learners

☐ Strong ☐ Moderate ☒ Little

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
   Note: may apply only to teacher edition

#### 6) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

There is a list of objectives at the beginning of the chapter. vocabulary words are in bold. There is a review at the end of the chapter. There are concept outlines and concedpt reviews for pre and post reading. This is an advanced text. Web resources are provided in the Instructor's Manual, well-known good sites. The online resources provide opportunities for online bio labs, data collection and inquiry activities.

C.	Supports Inquiry and Skill Development	Strong Evidence Moderate Evidence Little or No Evidence

#### 1) Promotes Inquiry, research and Application of Learning

- Provides opportunities for inquiry and research that includes activities such as self-selecting
  topics, formulating authentic questions, gathering information, researching resources, observing,
  interviewing, and evaluating information, analyzing and synthesizing data and communicating
  findings and conclusions.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
   Note: may apply to either teacher or student edition

#### 2) Skill Development

Strong Moderate Little

- Provides opportunities to make sense of data
- Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)
- Provides opportunities to examine a range of types of evidence
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

## 3) Strengths, Weaknesses, Comments:

The instructor's manual has suggestions for research and experiments. Many graphs, charts and diagrams are throughout the student edition. The student has an "apply Your knowledge" and "test your visual understanding" at the end of each chapter. The online resources provide opportunities for online bio labs, data collection and inquiry activities.		
D. Supports Best Practices of Teaching and Learning	Strong Evidence Moderate Evidence Little or No Evidence	
1) Engages Students	Strong Moderate Little	
<ul> <li>Includes content geared to the needs, interests, and abilities of students</li> <li>Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.</li> <li>Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences</li> <li>Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels</li> <li>Activities are truly congruent to the concepts addressed, not merely correlated <i>Note: may apply to either teacher or student edition</i></li> </ul>		
2) Uses Assessment to Inform Instruction	Strong	
<ul> <li>Includes multiple means of assessment as an integral part of ins</li> <li>Provides evaluation measures in the teacher edition that suppor</li> <li>Embedded assessments reflect a variety of Depth of Knowledge Note: may apply to either teacher or student edition</li> </ul>	ts differentiated learning activities	
<ul> <li>3) Strengths, Weaknesses, Comments:</li> <li>Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards</li> </ul>		
Opportunities for real-life experiments are provided in virtual learning environments, online. Multiple means of assessment are provided: application, critical thinking, essay questions, multiple choice. Well-alligned with AP Biology course requirements.		
E. Has an Organization/ Format that Supports Learning and Teaching	Strong Evidence Moderate Evidence Little or No Evidence	
1) Organizational Quality	Strong Moderate Little	

• Print and/or electronic materials present minimal barriers to learners

- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

• Construction appears to be durable and able to withstand normal use

2) Es	sential Components (beyond student and teacher text)	☐ Strong ☐ Moderate ☒ Little
	Items identified as essential components support the learning goals basal	s and concept coverage of the

#### 3) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Every chapter of this basal has the concept Outline and Concept Review. Every new vocabulary is in bold print, with an extensive glossary at the end of the student edition. No other items are essential.

F.	Note: The decision whether to recommend or not recommend	
	•	_

### 1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

### 2) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Instructor's Manual does not have an index. Chapter objectives, key terms, strategies, listed for each chapter. Student misconceptions and common pitfalls, also activities are strengths.